

Nanten DN Saturant

Dust binder/repellent for concrete structures and floors

PRODUCT TYPE

Nanten DN Saturant is a ready-to-use silica based saturating agent for concrete floors. Contains no hazardous volatile organic compounds (VOC). Protects the substrate against water absorption and dirt and improves wear resistance and shock-proofness of concrete. Reacts with calcium carbonate particles, forming a hard and non-dusting surface. Painting supplies group 04 (RT-classification).

APPLICATION

Nanten DN Saturant is suitable for sealing and hardening new and old concrete structures. For application in warehouses, industrial and parking halls as well as agricultural buildings.

PROPERTIES

Treatment increases the surface strength of concrete, prevents dusting and occurrence of fissures. Protects against weak organic acids, alkali and salts. Forms a surface permeable to water vapour and can be spread on fresh and moist concrete even at low temperatures.

TECHNICAL DATA

Colours Colourless.

Gloss level

Matt, does not form a film on the surface.

Material consumption

3 – 6 m²/l depending on moisture level and porosity of concrete.

Mixing ratio Ready mixture.

Package

Supplied in 20 l containers or 205 l barrels.

Application temperature

Temperature of substrate and ambient air between 0 - 35°C.

Drying time

Foot traffic permitted on floor surfaces after 2 – 3 h.
Fully reacted in 12 h.

Application method Spread with a rubber trowel, roller.

Dilution Do not dilute.

Cleaning of tools Wash the tools with water.

Storage

+ 5 °C ...+ 25°C, max. storage time 6 months. Store in a warm room, in tightly sealed original containers.

TECHNICAL PROPERTIES

Density (+ 23°C) Mixture density 1.1 kg /l.

Cubic capacity of solids

Fire class

No other classification of concrete.

VOC (calculated)

VOC in application mixture 0 g /l. EU VOC 2004/42/EC (cat A/j)
max. 500 g/l (2010).

DIRECTIONS FOR USE

Surface requirements and application conditions

Concrete strength class should be at least C25/C30 and wear resistance class 3. No water is allowed on the surface of concrete. The surface is sufficiently dry when it looks matt by visual inspection and not glossy due to water or moisture on the surface. Air, surface and coating temperature should be over + 0 °C during the coating application and drying. Glazing and light metal surfaces should be shielded before starting with DN treatment.

Surface preparation

New concrete floor

Remove laitance and any non-cured cement by surface grinding, shot-blasting or milling. All loose material which lowers adhesion should be cleared away and cement dust carefully removed with a vacuum cleaner

Old concrete floor

Remove laitance and any concrete that is in poor condition by surface grinding or shot-blasting. All loose material which lowers adhesion should be cleared away and cement dust carefully removed with a vacuum cleaner. Soiled floors should be washed with synthetic detergent before other substrate processing works.

Filling

Cavities in the floor can be filled with cement-based screeds that have sufficient strength.

Surface saturation

The ready mixture is spread with a roller, rubber trowel or by spraying, making sure that the treated surface becomes wet. The substrate of structures built less than a year ago should be kept moist for at least 30 minutes, in case of older concrete substrate for 45-60 minutes. After this rinse the surface with cold water while sweeping with a hard brush, applying plenty of force. The purpose of this is to remove from the surface the light-coloured unreacted saturator, which will also wear off during the use of the premise.

Care of the coated floor: See [www.nanten.fi / products / cleaning and care instructions](http://www.nanten.fi/products/cleaning-and-care-instructions).

APPLICATION SAFETY See [www.nanten.fi / products / material safety data sheets](http://www.nanten.fi/products/material-safety-data-sheets).

Even though the technical details of the product description are based on our best knowledge and experience, the above-named information should always be regarded as indicative. The user should make sure that the product is suitable for the application. If working contrary to these instructions, the user is solely responsible for any possible resulting damages and consequences.